Installation Guide

Step 1

Establish the exact layout that the channel run is going to follow & work out the trench sizes.

Step 2

Take into consideration: The channel size (width & height); the thickness for the concrete bed on which the channel will lay (pay attention to the calculation considering also the eventual height for the space of the bottom outlet, when it is required)

Step 3

Proceed with the concrete cast for making the laying bed and wait until it has reached the right consistency (**one hour at least**).

The trench should be **100mm higher** than the channel height for the concrete laying bed and 200mm wider than the channel width for the side flankings.

The concrete should be obtain to mix three parts of sand, one of cement and half a part of water (water/ cement ratio=0,5); the gravel will be with a maximum diameter of 15 mm, in this way to the concrete will be rather “fluid”

Step 4

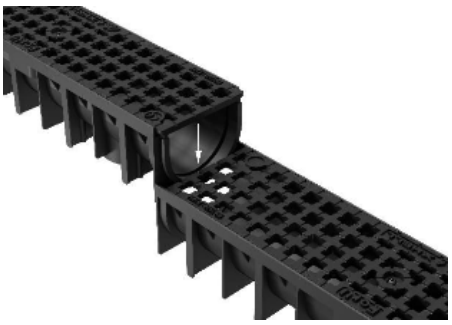
To drain the water, you can use the bottom outlet:
Break the outlet in the marked area
with a hammer.

Insert the outlet in the channel fixing it
with the four screws supplied with the oulet.

Installation Guide

Step 6

Lay the channel on the laying bed & link up the drainage pipes to the sewerage.



Step 7

If the draining line requires more than one channel, connect the channels by using the coupling system (Male / Female slots)

The channels inside the packaging are equipped with the gratings already fixed through the SnapFix Locking method which is integrated into the channel. But a Bolt & Bar can be used if preferred for a more secure fit.

*The Channels can be connected without removing the grate.

Step 8

Before doing the flanking, insert the end caps

Step 9

Create the flanking

Installation Guide

Step 9

Level out the channels in position. Be careful to leave enough space without the flanking so when a final covering (tile or blockpaving, etc) is fitted the channel will be flush with the finished surface.

Step 10

Coat with the final covering.
The area will need to set and can't be used for 72 hours.

Note*

a) The height of the surface layer must exceed the edge of the grating by appoximately 3mm

b) In case of concrete flooring, to absorb the horizontal expansion forces, it is advisable provide expansion joints in both directions.

c) We recommend using class S4 concrete (EN 206-1) and stone aggregate with maximum diameter 8mm.

Load Class (EN 1433)		***A15***	***B125***	***C250***
Application Load (EN 1433)	***kN***	15	125	250
Minimum Height (h) of concrete laying bed	***mm***	100	100	150
Minimum Thickness S of the concrete flanking	***mm***	100	100	150
Concrete Compression strength class (EN 206-1)		C20/25	C25/30	C25/30
Class of concrete compression resistence (EN 206-1) in case of Freeze/Thaw Cycles		C 30/37 XF4	C 30/37 XF4	C 30/37 XF4

The installation instructions and the relative example drawings are provided as an indication and do not take into account any specific characteristics of the gratings, the place of installation, the particularities of the ground, the morphology and the position of any slopes. For particular installation methods, the indications must be provided by the technician in charge.